RPM Installation

Requirements

RPM has been tested on a computer with the following configuration:

General Requirements

- Intel PC with 512 MB of RAM
- Windows XP Professional with Service Pack 2

  Windows Vista is not supported. RPM does not currently work with Windows Vista.
- Microsoft Access 2003 (used for RPM databases)
- Microsoft Word and Excel 2003 (used for RPM report generation)

Source Code Requirements

If installing RPM source code, the following National Instruments software must be installed first:

- LabVIEW 7.0 or above with Traditional NI-DAQ (an option during LabVIEW installation)
- LabVIEW Database Connectivity Toolkit (part of the LabVIEW Developer Suite or purchased separately)

Installation

1. Double-click the file **RPM setup.exe** to start the installation wizard, then proceed through the Welcome Screen and the License Agreement screen.
2. You are presented with two options for installing RPM.
   - **LabVIEW Code**

     If all components listed in the last Requirements bullet above are installed, click this option to install RPM source code. You will not be able to proceed if LabVIEW and the Database Connectivity Toolkit are not installed.
   - **RPM.exe**

     Click this option to install the RPM executable only.
3. After you choose the setup type and click **Next**, click **Install**.

   The installation will create the following directory in which it will place RPM files:

   C:\Program Files\ITS\RPM
4. Click **OK** to install RPM files.

   The installation requests the path of the Setup.exe file.
5. Ensure the path is that from which you began the install in step 1, and click OK.
6. Next steps:
   - If you chose **LabVIEW Code** in step 2, you are finished with the installation steps. See the "Startup and Configuration" section.
   - If you chose **RPM.exe** in step 2, continue to "Additional RPM.exe Installation Steps."

Additional RPM.exe Installation Steps

Follow these steps to install the LabVIEW 8.0 Runtime Engine, the VISA Runtime Engine, and the Traditional NI-DAQ driver, which are additional necessary components if you chose **RPM.exe** in step 2:

1. Navigate to the **Executable** directory in the installation directory:

   C:\Program Files\ITS\RPM\Executable

2. From the **Executable** directory, install the LabVIEW 8.0 Runtime Engine.

   Double-click the **LabVIEW_8.0_Runtime_Engine.exe** file to begin the installation. Proceed through the installation-wizard steps. You do not need to modify the default options during the installation process. You will be asked to restart you computer.

3. From the **Executable** directory, install the VISA Runtime Engine.

   Double-click the **visa400runtime.exe** file to begin the installation. Proceed through the installation-wizard steps. You do not need to modify the default options during the installation process. You will be asked to restart you computer.

4. From the **Executable** directory, install the Traditional NI-DAQ Driver.

   Follow these instructions from National Instruments:

   - STEP 1) Create a temporary folder on your local hard drive and name it **TDAQ741**.
   - STEP 2) Extract the **TDAQ741.zip** file into the folder you created in STEP 1. This will create the installation files necessary for installing Traditional NI-DAQ (Legacy).
   - STEP 3) To launch the NI-DAQ installer, run the setup.exe program in the **TDAQ741** folder.

   To conserve disk space, you can delete the .zip files and extracted files in the **TDAQ741** folder. It is recommended that you keep the extracted installation files in case you need to add features from the Traditional NI-DAQ (Legacy) distribution in the future.

Startup and Configuration

The installation creates shortcuts to RPM and the RPM online help file on the **desktop** and in the **Start** menu. Before using RPM, perform all of the setup steps described in the **Getting Started** section of the **RPM online help**. You can also access RPM online help by clicking the **Help** button on the **RPM Main Menu**. The setup steps in the RPM online help describe how to:

- Configure your equipment for use with RPM measurements
- Populate the database with necessary information about your instruments and radios
- Load the required binary data files included with RPM into the signal generators being used

Launching the RPM Executable

Double-click the **RPM.exe** shortcut on the desktop, or select it in the **Start** menu. See note below.

Launching the RPM Source Code in LabVIEW

Double-click the **Launch RPM.vi** shortcut on the desktop, or select it in the **Start** menu. This vi does not perform any functions, but it points you to the top-level vi in RPM, which you need to open to run RPM. The RPM top level vi is shown in the block diagram of **Launch RPM.vi**. See note below.

Note: See that the RPM software is not in a "Debug" state. Before proceeding, click the **Change Program Control Constants** button, and ensure that the **Debug Mode** box is not checked. Uncheck the box if it is checked.